Linearization of ...

S/142/62/005/005/009/009
E192/E382

ASSOCIATION: Kafedra teoreticheskikh osnov radiotekhniki Moskovskogo aviatsionnogo instituta (Department of Theoretical Principles of Radio-engineering of Moscow Aviation Institute)

SUBMITTED: June 15, 1961 (initially)
September 20, 1961 (after revision)

Fig. 2:

44342

5/142/62/005/006/004/011 E192/E382

9,2/10

The state of the control of the cont

Shestopalov, A.M. and Samoylenko, V.I.

AUTHORS:

Capacitance of a varicap and the distribution of

ionized impurities in its p-n junction TITLE:

Izvestiya vysshikh uchebnykh zavedeniy,

Radiotekhnika, v. 5, no. 6, 1962, 688 - 698 PERIODICAL:

A semiconductor junction, in which the concentration of ionized impurities varies along the axis perpendicular to the TEXT: plane of the junction, is considered. The structure of the space charge in the region of the p-n junction is illustrated in Fig.1, where the coordinates x1 and x2 correspond to the boundaries The differential capacitance of the junction is expressed by a formula similar to that of a parallel plate capacitor, i.e.

(1) 47 (x2 - x1)

where ϵ is the permittivity of the semiconductor material and S is the area of the p-n junction. The problem consists of Card 1/4

S/142/62/005/006/004/011 E192/E382

Capacitance of a varicap

国际集集 教育型学员排售量支票者的 海拉古农马州东西西北部 社会国际国际国际

finding the conditions under which the capacitance of the junction (varicap) is a prescribed function of the voltage U applied to it. The function C(U) should be monotonically decreasing since with increasing external voltage the depletion layer is increased and the capacitance of the junction reduced. It is assumed that the distribution $O(x_2)$ for one of the regions of the p-n junction

is known. This is necessary in order to be able to determine the distribution $\rho(x_1)$ for the other region so that the required function C(U) is achieved. It is found under these conditions that:

 $\rho(x_1) = \frac{\varepsilon S}{1 + \frac{\varepsilon S}{4\pi c^2(x_2)}} \frac{dC}{dx_2}$

This expression can be used for determining (x_1) for a given C(U) and $e(x_2)$. In general, the required C(U) is in the form:

S/142/62/005/006/004/011 E192/E382

Capacitance of a varicap

$$C = C_{o} \left(\frac{\varphi_{K}}{U + \varphi_{K}} \right)^{n}$$

(13)

where C_0 is the initial capacitance and ϕ_K is the contact potential. For this C(U) Eq. (9) is used to evaluate $Q(\mathbf{x}_1)$ when $Q(\mathbf{x}_2) = Q(\mathbf{x}_2)$ and $Q(\mathbf{x}_2) = Q(\mathbf{x}_2)$ eq. (9) can be used for approximate calculation of the acceptor (or donor) distribution for a given distribution of donors (or acceptors) and a given experimental graph showing the functional dependence of the capacitance on the applied voltage U. There are 6 figures.

ASSOCIATION:

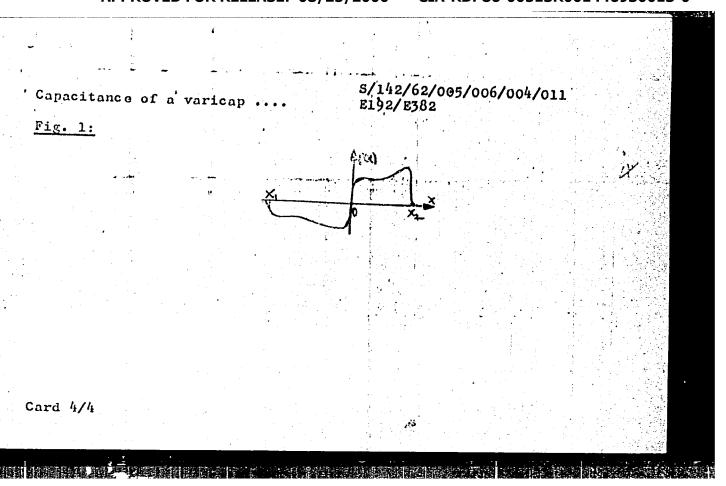
Kafedra teoreticheskoy radiotekhniki Moskovskogo ordena Lenina aviatsionnogo instituta imeni Sergo Ordzhonikidze (Department of Theoretical Radioengineering of Moscow "Order of Lenin" Aviation Institute imeni Sergo Ordzhonikidze)

SUBMITTED:

January 30, 1962 (initially)

April 23, 1962

Card 3/4



Parametric generator with two steady frequency states. Trudy
MAI no.149:66-73 '62. (MIRA 15:12)
(Oscillators, Electric) (Parametric amplifiers)

SAMOYLENKO, V.I.; GLOTOV, I.A.

Trigger effects in a circuit containing a nonlinear p-n junction with presence of d.c. feedback. Trudy MAI 20.149:74-91 '62. (MIRA 15:12)

(Pulse circuits)

SAMOYLENKO, V.I.; GLOTOV, I.A.

Stationary conditions in two-stage network of a parametron using the capacitance of a p-n junction. Trudy MAI no.149:92-113 '62.

(MIRA 15:12)

(Parametric amplifiers) (Electronic computers)

SAMOYLENKO, V.I.

Nonstationary processes in a parametron using the capacitance of a p-n junction. Trudy MAI no.149:114-133 '62. (MIRA 15:12) (Electronic computers) (Parametric amplifiers)

SAMOYLENKO, V.I.; ZLOCHEVSKIY, Ye.M.

Study of the dynamic processes of a subharmonic generator using the capacitance of a p-n junction, Trudy MAI no.149:134-147 '62.

(MIRA 15:12)

(Electronic computers)

(Oscillators, Electric)

I '	Detection operation of transistor diodes. Trudy MAI no.150:5-10 (MIRA 15:10)
	(Electric current rectifiers) (Diodes) (Transistors)
$\mathcal{L}_{\mathcal{A}} = \frac{1}{4} \left(\frac{1}{2} \left(\frac{1}{2$	
	- 보고 있는 사람들이 되었다. 그는 사람들이 되었다. 그는 사람들이 가는 사람들이 되었다. 그는 사람들이 가능했다.

DEMIN, V. P.; SAMOYLENKO, V. I.

Stability of the center frequency of an oscillator containing a p-n junction capacitance. Trudy MAI no.150:35-38 '62.

(MIRA 15:10)

(Electric networks) (Transistor circuits)

SHESTOPALOV, A.M.; SAMOYLENKO, V.I.

Capacitance of a variocond and distribution of ionized impurities in its p-n junction. Izv.vys.ucheb.zav.; radiotekh. 5 no.6:688-698 N-D *62. (MIRA 16:1)

1. Rekomendovana kafedroy teoreticheskoy radiotekhniki Moskovskogo ordena Lenina aviatsionnogo instituta imeni Sergo Ordzhonikidze.

(Transistors)

GITIS, Emmanuil Isaakovich. Prinimali uchastiye: SAMOYLENKO, V.I., kand. tekhn. nauk; BALTRUSHEVICH, A.V., kand. tekhn. nauk; ZHDANOV, G.M., prof., retsenzent; KRAYZMER, L.P., kand. tekhn. nauk, retsenzent; FLID, Ya.I., kand. tekhn. nauk, red.

[Automatic control of radio systems; electric and automatic control of radio systems] Avtomatika radioustanovok; elektroradioavtomatika. Moskva, Energiia, 1964. 631 p.

(MIRA 1". 1)

HEL!TYUKOVA, K.I. [Bel!tiukova, K.H.]; KOROLEVA, I.B. [Korol!cva, I.B.]; SAMOYLENKO, V.I.

Use of Trichoderma 5320 (Trichoderma koningi Oud.) against Pseudomonas lachrymans (Erw. Smith A.Bryan) Grssner, causative agent of the argular leaf spot of cucumbers. Mikrobiol. zhur. 26 no.5:8-11 64. (MIRA 18:7)

1. Institut mikrobiologii i vurusologii AN UkrSSR.

L 45833-66 EWT(d)/EWP(1) IJP(e) BB/GG/JYT(BF)

ACC NR: AP6030574 SOURCE CODE: UR/0413/66/000/016/0055/0055

INVENTOR: Samoylenko, V. I.; Migunov, N. I.; Piskulov, Ye, A.; Puzyrev, V. A.

ORG: none

TITLE: Method of recording and reading information from a fine anisotropic ferromatnetic film. Class 21, No. 184936 [announced by Moscow Order of Lenin Aviation Institute imeni S. Ordzhonikidze (Moskovskiy ordena Lenina aviatsionyy institut)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 55

TOPIC TAGS: information storage, data recording, data readout, magnetic field

ABSTRACT: A method of recording and reading out of information from fine anisotropic ferromagnetic films is proposed. Recording is accomplished by a field acting along the mean easy axis of magnetization and reading by a field acting along the mean hard axis of magnetization. To store analog information, the value of the field which acts along the mean hard axis must exceed the value Card 1/2

UDC: 681.142.07

ACC	NR: AP603	0574										
	of the anis	otropy rmatic	field. The on lies with ing field li	reco nin th es wi	ording field value which corresponds to the stored he region of boundary creep and shift, while the vithin the region of nondestructive readout. [DW]							
	[Translation]								Ľ	[DW]		
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ACC NR: AT6034600	SOURCE : UR/2535/66/000/166/0139/0154
AUTHOR: Samoylenko, V.	I. (Candidate of technical s nces)
ORG: none	
TITLE: Surface phenome	na in a metal
SOURCE: Moscow. Aviate uzkopolosnyye radioteki aystems), 139-154	sionnyy institut. Trudy, no. 166, 1966. Nelineynyye micheskiye sistemy (Nonlinear narrow band radio engineering
ABSTRACT: Phenomena of tion that the surface pelectrons. These electrons with its is proposed for determined by the distribution, the field in particular, the stratement at the time to the time of time of the time of the time of the time of the time of time of time of the time of time	courring on the surface of a metal are considered on the assump- potential barrier field is produced by outgoing and incoming trons produce on the surface of the metal a negative space mirror image, causes the potential barrier field. A method ining this field on the assumption that the field is fully de- ion of electron velocities within the metal. By knowing this d on the surface of the metal can be determined and vice versa. ucture of the surface potential barrier is studied in vacuum at ing the absolute temperature. However, it is found that when ied widely, the distribution of electron velocities within the inly in the region of high velocities. Therefore, when the tem- UDC: 621.315.592(04)

ACC NR: AT6034599

SOURCE CODE: UR/2535/66/000/166/0093/0109

AUTHOR: Samoylenko, V. I. (Candidate of technical sciences); Puzyrev, V. A. (Engineer)

ORG: none

TITLE: A ferromagnetic thin-film modulator

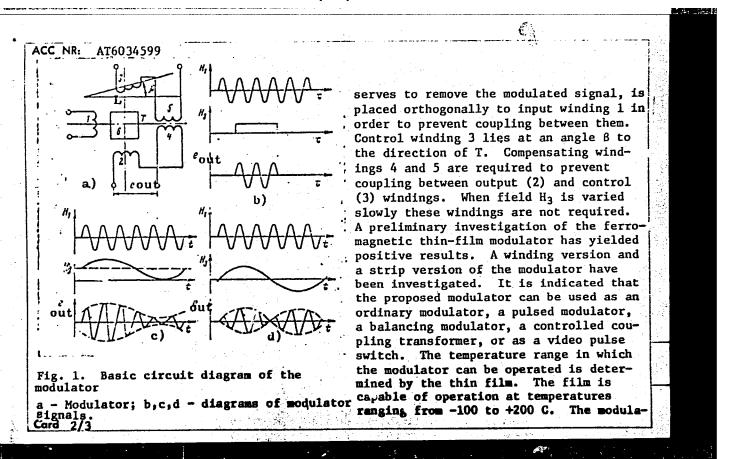
SOURCE: Moscow. Aviatsionnyy institut. Trudy, no. 166, 1966. Nelineynyye uzkopolosnyye radiotekhnicheskiye sistemy (Nonlinear narrow band radio engineering systems), 93-109

TOPIC TAGS: thin film circuit, computer memory, circuit design, computer component

ABSTRACT: Utilizing the physical properties of ferromagnetic thin films, a new modulator type was developed. The structure of a thin-film modulator depends, in general, on the operating frequency range. Depending on the carrier frequency and on the rate of change of the controlling (modulating) signal, either a winding, a strip, or a combined version of the modulator is used. The principle of operation of the modulator is explained on the example of the winding version. The basic circuit diagram of the modulator, together with signal diagrams, is given in Fig. 1. Permalloy film 6 forms the basis of the modulator. Either single- or multi-layer films are used, depending on the switching capacity. Simple and difficult access magnetization axes are correspondingly marked with L and T. Winding 1 is the input winding. Field H2, created by this winding, coincides with the direction of L. Output winding 2, which

Card 1/3

UDC: 681.142.52.2(04)



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GOILIR, A.M.; SAMOYLENKO, V.M.

Fotentiemetric study of the composition and stability of ion solvates. Zhur. neorg. khim. 10 no.20328-331 F 165.

(MIRA 18:11)

1. Kiyevskiy ordena Lenina gosudarstvennyy universitet imeni Shevchenko, kafedra organicheskoy khimii. Submitted Aug. 28, 1963.

SAMOYLENKO, V.M.

AUTHOR: Golub, A. M. and Samcylenko, V. M. 73-1-4/26

TITIE: Thiocyanate Complexes of Lead. I. Formation of the Simplest Complexes. (Rodanidnyye Kompleksy Svintsa. I. Obrazovaniye Prosteyshikh Kompleksov.)

PERIODICAL: Ukrainskiy Khimicheskiy Zhurnal, 1957, Vol.23, No.1, pp. 17 - 21 (USSR).

ABSTRACT: Thiocyanate compounds resemble halides in many ways, but can be investigated only with difficulty, in which sense they differ from lead halide complexes. The simpler thiocyanate complexes quoted in literature include Pb(CNS)₂, Pb(CNS)Cl and Pb(CNS)Br (viz. (1): Herty, G. H., and Boggs, T. R; J. Am. Chem. Soc. 1897, Vol. 19, 820.) It can be assumed that complex groups consisting of thiocyanate ions and lead ions must be formed in the ratio 1:1, 2:1, etc. 2s was shown by Golub, A. M. (Naukovi Zapiski KDY, Khim. Zbirnik, No.6, Vol.7, 1955). Investigations were carried out in the systems Pb⁻¹, CNS -H₂O. Experiments were carried out in the systems Pb⁻¹, CNS -H₂O. Experiments were carried out now in limits of concentrations of CNS-ions from 0.00548 to 0.1161-mol potentiometrically and spectrophotometrically. The existence of the complex groups Pb(CNS)₂ and Pb(CNS)₅ was confirmed by measuring the optical density (graph 1). The FbCNS and Pb(CNS)₂ groups were

GOLUB, A.M.; ROMANENKO, L.I.; SAMOYLENKO, V.M.

Lead rhodanide complexes. Part 2: Composition and stability of anion complexes. Ukr.khim.shur. 25 no.1:50-54 159.

(MIRA 12:4)

1. Kiyevskiy gosudarstvenny universitet im. T.G. Shevchenko, kafedra neorganicheskoy khimii.

(Lead thiocyanate)

GOLUB, A.M.; SAMOYLENKO, V.M. Thiocyanate complexes of indium. Ukr.khim, zhur. 29 no.5:472-479 1. Kiyevskiy gosudarstvennyy universitet im. T.G.Shevchenko.

L-12hh1-63 EWP(q)/EWT(m)/BDS AFFTC/ESD-3 RM/JD ACCESSION NR: AP3002h99 S/0073/63/029/006/0590/0600 5

AUTHOR: Golub, A. M.; Samoylenko, V. M.

TITLE: Effect of anhydrous solvents on the formation of thiocyanate complexes of indium (3)

SOURCE: Ukrainskiy khimicheskiy zhurnal, v. 29, no. 6, 1963, 590-600

TOPIC TAGS: thiocyanate complexes indium (3), In(CNS)sup+ sub 2, In(CNS) sub 3, In(CNS)sub3 . 0.5CHsub3CN

ABSTRACT: Trivalent indium-thiocyanate-solvent systems containing 25, 50, 70 and 100 vol. % acetonitrile and dimethylformamide (DMF) were studied by electroconductivity and potentiometrically. In awaeous DMF the complex changes from InCNS sup 2+ through In(CNS) sup + sub 2, In(CNS) sub 3 to In(CNS) sup 2- sub 5. This last complex changes in 50% and more of concentrated and anhydrous DMF into In(CNS) sup - sub 4. In the course of complex formation, the reaction of the ion-complex formers with molecules of solvent is more important than the effect of its dielectric constant. Increasing DMF concentration inhibits formation of more complicated complexes and aids solvation of the In ions. Dissociation

Card 1/2

L 12141-63

ACCESSION NR: AP3002499

constants for all complexes were calculated. In(CNS) sub 3.0.5CHsub3 CN, In(ClOsub4) sub 3.6 DMF and In(CNS) sub 3.3 DMF were synthesized. Orig. art. has: 10 tables and 6 figures.

ASSOCIATION: Kiyevskiy gosudarstvenny*y universitet im. T. G. Shevchenko (Kiev State University)

SUBMITTED: 07May62

DATE ACQ: 12Ju163

ENCL: 00

SUB CODE: none

NO REF SOV: 012

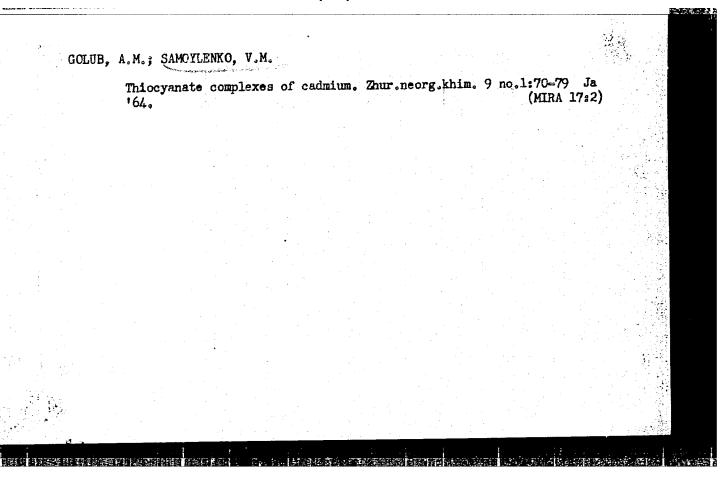
OTHER: 005

Card 2/2

GOLUB, A.M.; SAMOYLENKO, V.M.

Effect of the nature of the solvent on the formation of thiocyanate complexes of tin (11). Ukr. khim. zhur. 29 no.8:789-797 '63. (MIRA 16:11)

1. Kiyevskiy gosudarstvennyy universitet im. T.G. Shevchenko.



SAMOYLENKO, V W

136-2-8/22 Rapoport, M.B. and Samoylenko, V.N.

Deformation of Aluminum - Bath Cathode Blocks in the AUTHOR: Electrolysis Process. (Deformatsiya katodnykh blokov TITLE:

alyuminiyevykh vann v protsesse elektroliza)

Tsvetnye Metally, 1957, no.2, pp. 44 - 51 (USSR) ABSTRACT: As aluminum baths continue to increase in size the PERIODICAL: accurate determination of the deformation of carbonaceous materials under realistic conditions has become more urgent. Details are given of apparatus developed for this by the authors and experimental results obtained with it are presen-The method enables deformation of cathode blocks to be measured directly during electrolysis of cryolite - alumina melts and the authors suggest that such measurements can be used to evaluate the stability of carbon cathode blocks. effects studied include impregnation with electrolyte, composition of block, the molar na F/AIF, ratio in the electrolyte, additions to the electrolyte of CaF2, temperature, current density, carbide formation and applied mechanical load. From the results obtained a more thorough appreciation of the interaction between cathode blocks and various components of the bath is reached. Besides tabulations the results are shown graphically as relative deformation time for different levels of the factors studied. 1/2

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"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446930013-0

Studying possibilities of using refractory concretes in constructing aluminum electrolyzers. Trudy NIIZHB no.6:177-196 (MIRA 12:10)

(Concrete--Testing)
(Electrolysis-Equipment and supplies)

SAMOYLENKO, V. N.

Elastic plastic properties of carbon blocks. Ogneupory 25 no.4:181-183 '60. (MIRA 13:8)

1. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR. (Metallurgical furnaces) (Firebrick-Testing)

SAMOYLENKO, V.H.

Portable indicator for measuring deformations at high temperatures. (MIRA 13:10) Ism. tekh. no.10:31 0'60. (Strain gauges)

SAMOYLENKO, V. N.

Cand Tech Sci - (diss) "Study of the performance of the cathode installation in electrolytic baths for producing aluminum."

Leningrad, 1961. 19 pp; (Main Scientific Research Inst under the State Economic Council USSR, All-Union Aluminum-Magnesium Inst "VAMI"); 150 copies; price not given; list of author's works on p 19 (11 entries); (KL, 6-61 sup, 225)

SAMOYLENKO, V.N.

Studying the performance of cell casings in aluminum electrolysis. TSvet. met. 33 no.6:54-60 Je '60. (MIRA 14:4)

1. Nauchmo-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR.

(Aluminum—Electrometallurgy)

RAPOPORT, M.B.; SAMOYLENKO, V.N.; MAL'TSEVA, I.M.

Effect of physicochemical processes taking place in the carbon lining of an electrolytic cell, on the deformation of the cathode casing. Izv. vys. ucheb. zav.; tsvet. met. 5 no.2:81-87 '62.

(MIRA 15:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy alyuminiyevo-magniyevyy institut.

(Aluminum--Electrometallurgy)

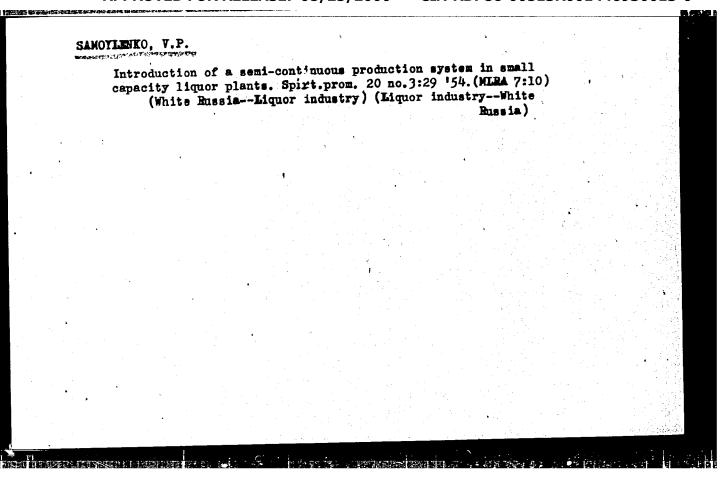
(Electrolysis--Equipment and supplies)

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SAMOYLENKO, V.N., TSYPLAKOV, A.M.

Improving the design of coal-lined aluminum bottoms electrolytic cells. TSvet. met. 38 no.6:45-49 Je '65. (MIRA 18:10)



L 20019-65 EWT(d)/EWP(1) Po-4/Pq-4/Pg-4/Pk-4/P1-4 IJP(a)/AEDC(a)/ASD(a)-5/ASD(s)/AFMDC/AFETR/RAEM(d)/ESD(dp) BC
ACCESSION NR: AR4044799 S/0271/64/000/006/A029/A029

SOURCE: Ref. zh. Avtomatika, telemekhanika i vy*chislitel'naya tekhnika.

AUTHOR: Grishchuk, V. P.; Samoylenko, V. P.; Boldy*reva, D. F.

FITLE: Determining the parameters for setting an intermittent-control system in the case of linear disturbance

CITED SOURCE: Sb. Tekhn. kibernetika. Kiyev, Gostekhizdat USSR, 1963, 69-80

TOPIC TAGS: automatic control, automatic control theory

TRANSLATION: When the error introduced by self-oscillations in the system can be neglected, the maximum deviation of the controlled variable from its steady-state preset value serves as a measure of accuracy of the control process. This condition is satisfied when the external disturbance is fairly slow and can be regarded, within a small interval, as a linear function of time. The accuracy is assessed of an automatic control system which encompasses a first-kind plant with a delay and a discrete controller represented by a recond-kind pulse element. The control-

Card 1/2

L 20019-65 ACCESSION NR: AR4044799 0

system dynamics is investigated by the method of difference equations. It is noted that the controlled variable takes on a maximum value at the time moments determined by an integer number of periods plus the delay time. The maximum deviation is evaluated; it depends on the settings of the controller and the pulse element. The controlled-variable minimum equals to the average value of the same parameters; the swing of oscillations depends only on the control period. Stability of the automatic control system is analyzed, and stability limits in the parametric plane are determined on the basis of a modified Raus-Hurwitz criterion. Optimum setting parameters (in the sense of minimum deviation of the controlled variable from its preset value) are determined. An additional case is considered when the derivative-type correction is absent. Dynamic errors in discrete and continuous analog systems are compared; with a small relative delay, the discrete system is found to provide better accuracy than a structurally similar analog system. Six illustrations. Biblic graphy: 2 titles.

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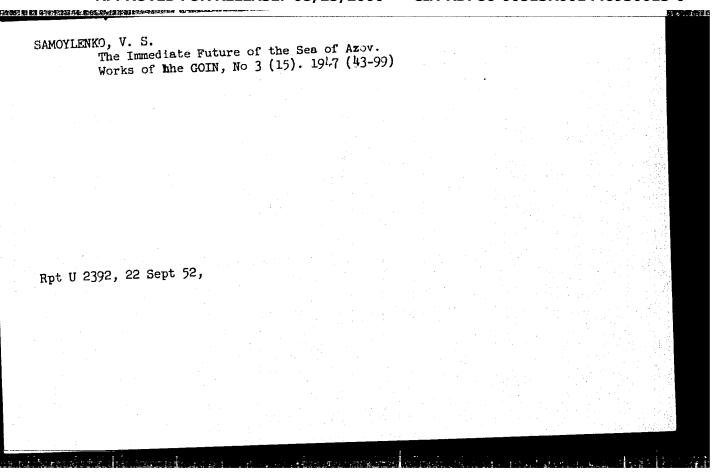
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L 23616-66 EWT(1) ACC NR: AP6009539	/FCC GW (A, II) S	OURCE CODE: UR/041	3/66/000/005/0075/00 \$	1. · · · · · · · · · · · · · · · · · · ·
AUTHOR: Samoylenko	y. P.; Korolev, V. D.	보기 역한 경쟁 기계보험. 10. 기계 기원 : 기계보험.		3
ORG: none TITLE: A magnetose by the Special Desi struktorskoye byuro	ensitive system for a magnign Bureau of the State Go o Gosudarstvennogo geologi	netometer. Class 42 cological Committee, icheskogo komiteta S	, No. 179484 [announ SSSR (Osoboye kon- SSR)]	nced
SOURCE: Izobreten	iya, promyshlennyye obraz	tsy, tovarnyye znaki	, no. 5, 1966, 75	
TOPIC TAGS: magnet	tometer, magnetic field i	ntensity		
ABSTRACT: This Aum netometer. The uni The frequency range net from a highly	thor's Certificate introdit contains a permanent is e of measurable variation coercive barium ferrite is to the filament. The lens as long as the axis of ma	uces a magnetosension ndicator magnet mounts is expanded by malent the form of a par- gth of the edge par-	king the indicator mallelepiped with the allel to the filamen	ag-
SUB CODE: 08/4/	SUBM DATE: 02Jan64/	ORIG REF: 000/	OTH REF: 000	
		UDC: 550.38	0.8	

SAMCILENKO, V.G.

"Methods of Perception of the Climate of Seas and Oceans", Report State Institute of Oceanography, No 49. Hydrometeorological Press, Lemingrad-Moscow; 1946, 9 pp. (Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

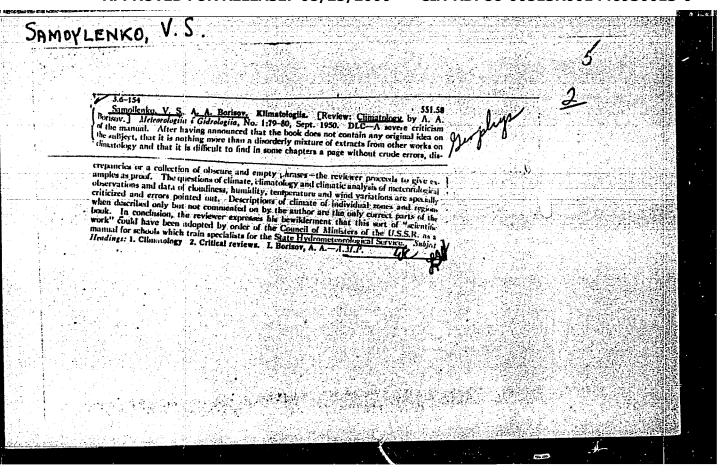


SAMOYLENKO, V.S.

Averkiyev, M. S.

"Meteorological Manual." I.I. Gayvoronskiy, M.S. Averkiyev. Reviewed by V.S. Samoy lenko. Met. 1. gidrol., No. 5, 1949.

Monthay List of Russian Accessions, Library of Congress, October, 1952. UNCLASSIFIED.



"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446930013-0

Modern theory of oceanic evaporation and its practical application.

Trudy GOIN no.21:3-31 '52.

(Oceanography) (Evaporation)

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AVERKIYEV, M.S. [author]; ULANOV, Kh.K. [reviewer]; SaMOYLENKOV, V.S. [redaktor].

"Mateorology." M.S.Averkiev. Reviewed by Kh.K.Ulanov. Vest.Mosk.un. 8
no.5:139-140 My '53. (MLRA 6:8)

1. Rizhskaya Geofizicheskaya observatoriya (for Ulanov).

(Meteorology) (Averkiev, M.S.)
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SAMOYLENKO, V.S.

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P.; BUCHINSKIY, I.Ye.; SEYANINOV, G.T., professor; BOSHNO, L.V.; ALISOV, B.P.; BIRYUKOV. N.N.; GAL'TSOV, A.P.; GRIGOR'YEV, A.A., akademik; EYGENSON, M.S., Drofessor; MURETOV, N.S.; KHROMOV, S.P.; BOGDANOV, P.N.; LEHEDEY, A.N.: SOKOLOV, V.N.; YANISHEVSKIY, Yu.D.; SAMOYLENKO, TAS.; USMANOV, R.F.; CHUBUKOV, L.A.; TROTSENKO, S.Ya.; VANGENGEYM, G.Ya.; SOKOLOV, I.F.; STYRO, B.I.; TEMNIKOVA, N.S.; ISAYEV, E.A.; DMITRIYEV, A.A.; MALYUGIN, Te.A.; LIEDEMAA, Ye.K.; SAPOZHNIKOVA, S.A.; RAKIPO-VA, L.H.; POKROVSKAYA, T.V.; BAGDASARYAN, A.B.; ORLOVA, V.V.; RU-BINSHTEYN, Ye.S., professor; MILEVSKIY, V.Yu.; SHCHER BAKOVA, Ye.Ya.; BOCHKOV, A.P.; ANAPOL'SKAYA, L.Ye.; DUNAYEVA, A.V.; UTESHEV, A.S.; HUDNEVA, A.V.; RUDENKO, A.I.; ZOLOTAREY, M.A.; NERSESYAN, A.G.; MIKHAYLOV, A.N.; GAVRILOV, V.A.; TSOMAYA, T.I.; DEVYATKOVA, A.M.; ZAVARINA, M.V.; SHMETER, S.M.; BUDYKO, M.I., professor.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. sbor.GUGMS no.3/4:26-154 154.

1. Chlen-korrespondent Akademii nauk SSSR (for Fedorov). 2. Glavnaya geofizicheskaya observatoriya im. A.I. Voeykova (for Predtechenskiy, Lebedev, Yanishevskiy, Isayev, Rakipova, Pokrovskaya, Orlova, Rubirshteyn, Budyko, Shcherbakova, Anapoliskaya, Dunayeva, Rudneva, Gavrilov, Zavarina). 3. Ukrainskiy nauchno-issledovatel skiy gidrometeorologicheskiy institut (for Buchinskiy). (Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of detates) [of the current state climatological research and methods of developing it]. Inform. sbor. GUGMS no.3/4:26-154:54. (Card 2) (MIRA 8:3)

4. Vsesoyuznyy institut rastenievodstva (for Selyaninov, Rudenko). 5. Bioklimaticheskaya startsiya Kislovodsk (for Boshno). 6. Moskorskiy gosudarstvennyy uriversitet im. M.V. Lomonosova (for Alisov). 7. Ministerstvo putey soobshcheniya SSSR (for Biryukov). 8. Inatitut geografii Akademii nauk SSSR (for Gal'tsov, Grigor'yev). 9. Geofizicheskaya komissiya Vsesoyuznogo geograficheskogo obshchestva (for Eygenson). 10. Ministerstvo elektrostantsiy i elektropromyshlennosti SSSR (for Muretov). 11. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova (for Khromov). 12. TSentral'nyy nauchno-issledovatel'skiy gidrometeorologicheskiy arkhiv (for Sokolov, Zolotarev). 13. Gosudars vennyy okeanograficheskiy institut (for Samorlanko). 14. TSertral'nyy institut prognozov (for Usmanov, Sapoznnikova). 15. Institut geografii Akademii nauk SSSR i TSentral'nyy institut kurortologii (for Chubukov). 16. Nauchno-issledovatsi skiy institut imeni Sechenova, Yalta (for Trotsenke). 17. Arkticheski7 nauchne-issledovatel'skiy institut (for Vangengeym). (Continued on next card)

FEDOROV, Ye.Ye., professor; PREDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state of climatological research and methods of developing it].

Inform.sbor. GUGMS no.3/4:26-154 '54. (Card 3) (MLRA 8:3)

18. Dal'nevostochnyy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Sokolov). 19. Institut geologii i geografii Akasedmii nauk Litovskoy SSR (for Styro). 20. Rostovskoe upravlenis gidrometsluzhby (for Temnikova). 21. Morskoy gidrofizicheskiy Institut Akademii nauk SSSR (for Dmitriyev). 22. Vsesoyuznyy institut rasteniyevodstva (for Malyugin). 23. Akademiya nauk Estonskoy SSR (for Liedemaa). 24. Akademiya nauk Armyanskoy SSR (for Bagdasaryan). 25. Leningradskiy gidrometeorologicheskiy institut (for Milevskiy). (Continued on next card)

FEDOROV, Ye.Ye., professor; PHEDTECHENSKIY, P.P., and others.

Discussion of the report (in the form of debates) [of the current state climatological research and methods of developing it]. Inform. abor. GUOMS no.3/4:26-154 *54. (Card 4) (MIRA 8:3)

26. Gosudarstvennyy gidrologicheskiy institut (for Bochkov). 27. Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut (for Uteshev). 28. Upravlenie gidrometsluzhby Armyanskoy SSR (for Nersesyan). 29. Leningradskoye upravleniye gidrometsluzhby (for Mikhaylov, Devyatkova). 30. Tbilisskiy gosudarstvennyy universitet (for Tsomaya). 31. TSentral'naya aerologicheskaya observatoriya (for Shmeter). (Climatology)

sov/169-59-7-7098

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 7, p 90 (USSR)

AUTHOR:

Samoylenko, V.S.

TITLE:

Problems and Methods of Evaluating Hydrometeorological Observa-

tions From Ships by Means of Computing Machines

PERIODICAL:

Tr. N.-i. in-ta aeroklimatol., 1958, Nr 5, pp 51 - 79

ABSTRACT:

The experience of machine processing of hydrometeorological observations made from ships is generalized; the processing has been carried out during the last 10 years by the Scientific Research Institute of Aeroclimatology by means of mechanized index cards of the standard type approved by the Main Administrations of the Hydrometeorological Service. Having shown the function of the mechanized index cards and the general character of the materials relating to their compilation, the author lists the complexes of the meteorological and hydrological elements representing the content of the index cards. The following elements are contained in them: 1) the velocity of wind; 2) the direction of wind; 3) the pressure of the

Card 1/3

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Problems and Methods of Evaluating Hydrometeorological Observations From Ships by Means of Computing Machines

atmosphere; 4) the temperature of the air; 5) the absolute and relative humidity; 6) the forms of the olouds; 7) the quantity of clouds; 8) the atmospheric precipitations; 9) the fogs; 10) the visibility and the optical phenomena; 11) the characteristic of the present weather; 12) the temperature of water; 13) the undulation (its type, force, direction); 14) the elements of undulation; 15) the ice conditions. Moreover, the card index must comprise a series of distinctive elements determining the time and place of observations and the conditions, under which each observation has been carried out. The characteristics of the listed elements, ciphered in the form of definite figures, are inserted into the punched cards, the model of which has been shown, adding the corresponding instructional notes. All registrations from observations are carried out in note-books having definite form, and the perforation is brought about directly according to these note-books. Simultaneously, the tabulation of the informations noted in the punched cards is carried out by special machines, for obtaining controlling course tabulation cards. The latter represent a printed course catalogue of all observations

Card 2/3

sov/169-59-7-7098

Problems and Methods of Evaluating Hydrometeorological Observations From Ships by Means of Computing Machines

performed in the place in question, and moreover, they are employed for the checking of the correctness of performance of the index card. Moreover, the compiled card index is subjected to sorting over map squares and over months by means of a sorting machine, and thereupon, tabulagrams of map squares are plotted, an example of which is shown in the appendix. The tabulagram is used for the second control of the exactness of the compiled card index, which is carried out according to the method mentioned. The main mechanized processing concludes with the computation of the average distinctive and hydrometeorological characteristics for each square and supplementary estimation of the reliability of the results obtained by means of the card index file. The compilation and control of the card index file, which must be performed by hand with efficiency of 1,000 - 2,000 punched cards per day, represent the most labor-consuming work. Any analysis, which is to be done on the basis of the ready card index file can be performed by automatic machines of high capacity. Climatic and hydrologic atlases of the seas represent the final result of the processing of ship observations. The map of the temperature of air in November for the Aral Sea is added as an exemplary one. The further aspects of the application of mechanized index card files of ship observations M.I. Gol'tsman are pointed out. Card 3/3

SAMOYLENKO, V.S.; BAGROV, N.A., kand.fiz.-matem.nauk, red.; GORYUSHKIN, M.N., red.; ZEMTSOVA, T.Ye., tekhn.red.

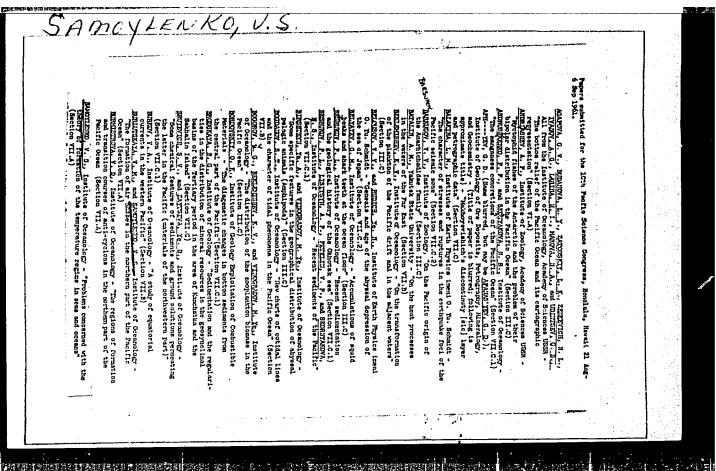
[Formation of the temperature regimen in seas] Formirovanie temperaturnogo rezhima morei. Pod red. N.A.Bagrova. Moskva, Gidrometeor.izd-vo, 1959. 144 p. (MIRA 13:1) (Ocean temperature)

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AUTHORS:

Samoylenko, V. S. and Sirotkina, A. I.

TITLE:

Insolation and water temperature in the Caspian and

the Aral Seas (Theses)

PERIODICAL:

Referativnyy zhurnal, Geofizika, no. 4, 1962, 17, abstract 4B122 (V sb. Aktinometriya i atmosfern. optika,

L.. Gidrometeoizdat, 1961, 92-93)

TEXT: Monthly maps of the summary solar-radiation distribution and the water-temperature distribution were obtained on the basis of the processing of the results of multi-yearly meteorologic and actinometric observations. For both the Caspian and the Aral Seas the maximum radiation totals during most of the year occur in south-eastern and eastern areas. Analysis of the maps showed that the disposition of the average yearly isotherms does not coincide with the disposition of the solar radiation isolines. Abstracter's note: Complete translation.

Card 1/1

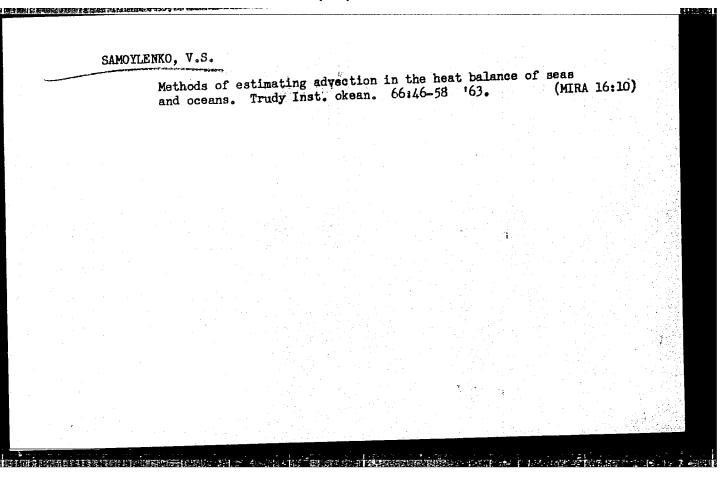
BURLUTSKAYA, V.M.; SAMOYLENKO, V.S.

Conditions governing the formation of air masses in the northern part of the Pacific Ocean. Trudy Inst. okean. 57: 93-116 '62. (MIRA 16:10)

SAMOYLENKO,	٧.	s.,	

"Structure of the trade-wind circulation in the Pacific Ocean"

Report to be submitted for the 13th General Assembly, Intl. Union of Geodesy and Geophysics (IUGG), Berkeley Calif., 19-31 Aug 63



NAZAROVA, lrine Varfolomeyevna; SAMOYLENKO, V.S., otv. red.; SLABKOVICH, G.I., red.

[Effect of wind air temperature in the European part of the U.S.S.R.] Vliianie vetra na temperaturu vozdukha Evropeiskoi chasti SSSR. Leningrad, Gidrometeoizdat, 1964. 125 p. (MIRA 17:8)

L 21418-65 EVIT(1)/ENG(v) Pe-5/Pae-2 AEDC(a)/AFETR GN S/C213/64/000/006/0997/1007

AUTHOR: Samoylenko, V. S.

TITLE: Will a natural ice cap be restored in the Arotic basin in case the present one is destroyed?

SOURCE: Okeanologiya, no. 6, 1964, 997-1007

TOPIC TAGS: \glacier, heat balance, ocean, atmosphere

ABSTRACT: The author considers the thermal balance in the surface water of the sea and the lower layer of the atmosphere, taking into account the conversion factors and heat advection. He then analyzes the present-day heat balance and computes future mean annual temperatures. Temperature extremes are evaluated, and it is concluded that a natural ice cap will not be restored in the Arctic basin, should the present one be destroyed, if the advective flow of heat into the basin is held at helf the current value, i.e., if the flow is 0.025 cal/cm² min or more. A continuous year-round ice cap will certainly form if the advection of heat falls below this figure. It might be thought that computations could be made to indicate whether advection would or would not fall below the critical level indicated, but the author states that no method is available to make detailed computations leading

Card .1/2

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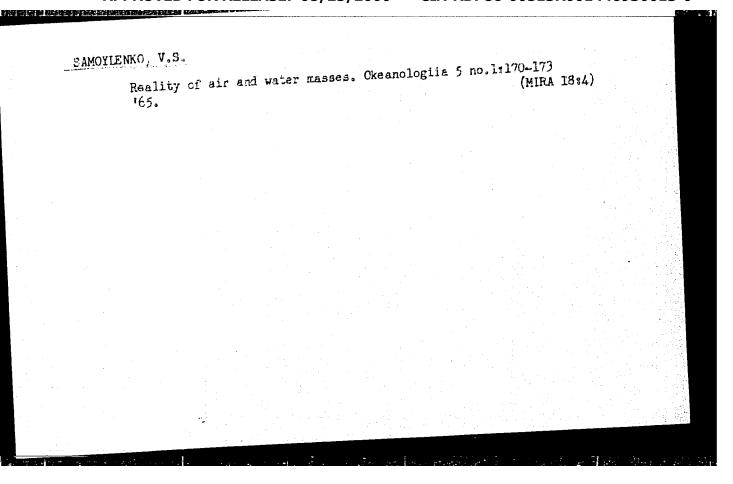
SAMOYLENKO, V.S.

Will the natural ics cover in the Arctic basin be restored in case of its destruction? Okeanologiia 4 no.6:997.-1007 | 164. (MIRA 18:2)

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L 38676-66 EWT(1) GW ACC NR: AT6012602 (N) SOURCE CODE: UR/2566/65/078/000/0128/0153 AUTHOR: Samoylenko, V. S. (Doctor of geographical sciences)	
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SOURCE: AN SSSR, Institut okeanologii. Trudy, v. 78, 1965. Issledovaniya atmosfernoy tsirkulyatsii i prizemnogo sloya vozdukha nad Tikhim i Indiyakim okeanami (Studies of atmospheric circulation and the boundary layer of air over the Pacific and Indian atmospheric circulation and the boundary layer of air over the Pacific and Indian	
TOPIC TAGS: IR radiation, solar radiation absorption, radiation measurement ABSTRACT: Radiation balance and atmospheric radiation measurements, made at various altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961 and 1962 were investigated with respect to the altitudes over the Black Sea in 1961	
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ACC NR: AM7003452

Monograph

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Samoylenko, V. S., ed.

The Pacific Ocean; meteorological conditions over the Pacific Ocean (Tikhiy Okean; meteorolicheskiye usloviya nad Tikhim Okeanom) Moscow, Izd-vo "Nauka", 66. 0390 p. illus., biblio., maps. (At head of title: Akademiya nauk SSSR. Institut okeanologii) Added t.p. in English. Errata slip inserted. 1,000 copies printed.

TOPIC TAGS: ocean, meteorologic observation, atmospheric circulation

PURPOSE AND COVERAGE: This book is the first part of a seven volume compendium of presently available information on the nature and resources of the Pacific Ocean, prepared by members of the Institute of Oceanology of the USSR Academy of Sciences. The first part of the present volume describes the atmospheric circulation over the entire ocean. The general characteristics of circulation patterns in each of the four circulation zones of ocean are given, and formation of air masses in the Pacific and their physical properties are examined. The formation and role of oceanic anticyclones as well as cyclonic activity are described. A special section discusses Pacific tropical cyclones.

Card 1/3

UDC: 551. 5(265/266)

ACC NR: AM7003452

Atmospheric circulation at higher levels and jet streams over the Pacific are described. The second part of the book analyzes thermal processes linking the ocean and the atmosphere, evaporation and precipitation, annual heat and humidity turnover. A special cartographic supplement is included. This book can be a valuable reference and handbook for specialists in problems of the Pacific Ocean.

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Part 2. Heat and humidity turnover in the Pacific Ocean

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SUB CODE: 04/ SUBM DATE: 28Jul66/ ORIG REF: 088/ OTH REF: 075

RYZHKOV, N.I., inzh.; ANTSELEVICH, V.D., inzh.; SAMOYLENKO, V.Ye., inzh.

Manufacturing welded derrick of boring rigs. Svar.proizv.

no.5:30-31 My '65.

(MIRA 18:6)

1. Ural'skiy zavod tyazhelogo mashinostroyeniya imeni Sergo Ordzhonikidze.

CC NR: AP6007980	(A)	SOURCE CODE:	UR/0018/66/000/003/0031/0037
UTHOR: Samoylenko, Y	a. (Colonel)		
RG: none			23 8
ITLE: A tactical exer	rcise with a pa	arachute company	
OURCE: Voyennyy vestr		in the first of th	
OPIC TAGS: military t	raining, nucle	ear warfare train	ing, tactical warfare
STRACT: A step-by-st antry company attacked rike by the enemy) is my commander to make cordinate the actions eir mission in the en- rtars, and recoilless diation specialists.	ep account of an enemy nucl presented. T decisions relatof the various emy's rear. The mission are	a tactical exerci- ear missile insta la aim of the exe ting to the landi units in the com he troops were ar re accompanied by	ise in which a parachute in- allation (following an atomic ercise was to train the com- ing of airborne troops, and to inpany in the performance of imed with submachine guns, engineers and chemical and destroy the enemy's nuclear end off counterattacks. The
apons, to attack the	enemy's support	t troops and to f	end off counterattacks The

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SUB CODE	: 15/	SUBM DA	TE: GO/	ORIG REF:	000/	OTH REF:	000		
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ACC NR: AP6036149

AUTHOR: Samoylenko, Ya. (Colonel)

ORG: none

TITLE: Landing on a seacoast [Landing of amphibious and airborne forces]

SOURCE: Voyennyy vestnik, no. 11, 1966, 41-45

TOPIC TAGS: amphibious warfare training, military training, military operation

ABSTRACT: This article describes the combat role and activities of airborne troops working in close cooperation with amphibious forces. As a rule, airborne troops jump into the enemy's rear area shortly before the landing of amphibious forces. During their training, airborne troops work to improve assembly after airdrops, movement along the azimuth, assault from the march column, capturing and destroying coastal defenses, and quickly moving out of the landing area. Orig. art. has: 1 figure

Cord 1/1 UDC: none

KOPP, Mark Filippovich; KHARKEVICH, Anatoliy Dem'yanovich; SHILOV, Oleg Semenovich; SAMOYLENKO, Yevgeniy Andrianovich; MARKOVICH, Aleksandr Yakovlevich; RESHETNIKOV, N.V., retsenzent; METEL'SKIY, G.B., otv. red.; OBPAZTSOVA, Ye.A., red.

[Textbook on telephony] Zadachnik po telefonii. [By] M.F.Kopp i dr. Moskva, Sviaz', 1965. 279 p. (MIRA 18:3)

AID P - 4565

Subject

: USSR/Electronics

Card 1/2

Pub. 90 - 8/8

Author

Samoylenko, Yu. I.

Title

Transients in linear circuits when irregular emf is

connected.

Periodical: Radiotekhnika, 5, 73-79, My 1956

Abstract

The author explains that to characterize a non-stationary random process occuring with irregular noise signals it is sufficient in practice to determine only the mean statistical value of the output voltage and the dispersion as functions of time. With t these magnitudes will tend to their steady state values. Formulas to determine steady state noise parameters at the output of linear filters are known. The author aims at finding analogical expressions from the steady state ones for the transient state assuming that t --> 00.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446930013-0"

AID P - 4565

Radiotekhnika, 5, 73-79, My 1956

Card 2/2 Pub. 90 - 8/8

He presents a method of analyzing transients in linear circuits with irregular signals. The method is used to compare the noise-resistance at the reception of telegraph signals by the method of synchronous integration and by the usual method with frequency selection. Two diagrams, 3 Soviet references (1951-1954).

Institution: None

Submitted : Ap 9, 1955

AUTHOR: Samoylenko, Yu.I. SOV/109-3-11-3/13

TITLE:

On the Theory of the Synchronisation of Oscillations in the Systems with n Degrees of Freedom, by Means of Small External Signals (K teorii sinkhronizatsii avtokolebaniy v sistemakh s n stepenyami svobody malymi vneshnimi

silami)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 11,

pp 1361 - 1372 (USSR)

ABSTRACT: An attempt is made in this work to derive an approximate

differential equation for the phase of the oscillations in a system with n degrees of freedom, which generates a complex, periodic wave-form and is subjected to the synchronising action of small, quasi-periodic signals. For the purpose of analysis, it is assumed that, in the absence of external signals, the system produces stable, stationary oscillations having frequencies ngwo (where

is an integer). The external, quasi-periodic signals ng can be of the following type: a) direct or parametric signals whose amplitudes are of the order of us (u and s being small parameters) and whose frequencies are multiples

Card1/5

SOV/109-3-11-3/13

On the Theory of the Synchronisation of Oscillations in the Systems with n Degrees of Freedom, by Means of Small External Signals

of ω_0 ; b) direct signals having amplitudes of the order μ and frequencies which are multiples of ω_0 but are not equal to any of the natural oscillation frequencies of the system. The equations describing the motion of the system can therefore be written as:

ine system can therefore be written as: $\sum_{j=1}^{n} f_{mj}(D)y_{j} = \epsilon g_{m}(y_{j}, \eta_{mo}) + \mu e_{m}(t) + \mu \epsilon e_{m}(t, y_{j}, \eta_{mo})$ (1)

 $(m, l = 1, ..., n, \sigma = 0, ..., s, \rho = 1, ..., r)$

where y_j are the co-ordinates of the system, $f_{mj}(D)$ are the operational polynomials, while the functions e_m and \widetilde{e}_m are expressed by the first equations on p 1362. The parameters \underline{e}_m , \widetilde{E}_{mk} and \widetilde{K}_{mk} in the above expressions are the analytical functions of the co-ordinates y_l and Card2/5

SOV/109-3-11-3/13
On the Theory of the Synchronisation of Oscillations in the Systems
with n Degrees of Freedom, by Means of Small External Signals

their derivatives up to the order s and of certain It is assumed that the analytic functions, nme solution of Eqs (1) should be in the form of Eq (2). this, it follows that Eqs (1) can be written as Eqs (3). The parameters z, in Eqs (3) can be expressed by Eq (4). By comparing Eqs (1) and (3), it is possible to obtain Eq (5). This, after a number of modifications and substitutions, leads to Eq (6). On the basis of the Bulgakov theory (Refs 9 and 10), Eq (6) can be transformed into Eqs (8) by adopting the transformation defined by Eq (7). If stable amplitudes and phases of the oscillations are denoted by A_8 and ϕ_8 and if the variables of Eqs (8) are changed in accordance with the rules expressed by Eqs (9), the final system of equations can be written in the form of Eqs (10). The investigation and the solutions of Eqs (10) permits the determination of the basic stationary relationship which characterises the mutual synchronisation of the oscillations in the system and, in particular, the dependence of the amplitude and the phase Card3/5

SOV/109-3-11-3/13

On the Theory of the Synchronisation of Oscillations in the Systems with n Degrees of Freedom, by Means of Small External Signals

on the de-tuning \(\). From the above (and on the basis of Eqs (1) and (16)), the final differential equation for the phase of the oscillations is in the form of Eq (17), where \(\omega_t = u + \omega_t \). This equation can be used to determine the first-order approximation to the solution of the problem; the approximation is obtained by integrating one of the first-order equations of the equation system (17). The final first-order solution of the system is therefore in the form of Eq (18). The above formula is used to analyse the particular case when the amplitudes of the harmonics of all the interacting signals change in the same manner and when the phase shifts between harmonics are constant. In this case, Eq (17) is in the form of Eq (19), where Z is a certain periodic function which satisfies the Dirichlet conditions and can be determined from the formula on p 1370.

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 $$\rm SOV/109\text{-}3\text{--}11\text{--}3/13$$ On the Theory of the Synchronisation of Oscillations in the Systems with n Degrees of Freedom, by Means of Small External Signals

There are 10 references, 8 of which are Soviet and 2 English.

March 18, 1957 SUBMITTED:

Card 5/5

S/194/61/000/009/025/053 D209/D302

AUTHORS:

Grishuk, V.P., Samoylenko, Yu.I.

TITLE:

Approximate method for selecting optimum adjustments

of an intermittent regulation system

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 9, 1961, 43, abstract 9 V347 (V sb. Avtomatiz. i priborostroyeniye, no. 1, Kiyev, Gostekhizdat

USSR, 1959, 80-87)

An impulse system of automatic regulation consisting of a first order object with a delay, an impulse element of the second type and a servomotor with constant speed, is examined. The proposed method of its analysis is based on substitution of the actual system of intermittent regulation by a certain system equivalent to it as far as the parameters of the regulator adjustment are concerned, whose linear part includes an aperiodic element, an integrating element and a delay element. The equivalent delay time & and the

Card 1/2

Approximate method...

S/194/61/000/009/025/053 D209/D302

equivalent time constant of the aperiodic element Ta can be determined by corresponding approximation of the amplitude-phase characteristic of the system. The stability of this system is investigated by the frequency method. Designations of the system parameters which secure the necessary margin of stability, are determined. The parameters of the system adjustment that result in the following process quality indicators are found: overshoot, error and regulation time. 5 references. Abstracter's note: Complete translation 7

B

Card 2/2

Samoylenko, Yu.I. AUTHOR:

SOV/109-4-1-6/30

TITLE:

Selective Properties of an Oscillatory System which is

Synchronized by a Sinuscidal Signal (Izbiratel'nyye

svoystva avtokolebatel noy sistemy, sinkhronizirovannoy

garmonicheskim signalom)

PERIODICAL:

Radiotekhnika i Elektronika, 1959, Vol 4, Nr 1,

pp 39 - 42 (USSR)

ABSTRACT: It is assumed that when an oscillator is synchronised by a sinusoidal signal and is subject to the interaction of a perturbing electromotive force, the perturbance can be regarded as quasi-sinusoidal. The problem consists of determining the amplitude and phase deviations of the escallator as a function of the perturbing signal. behaviour of the system considered can be described by:

$$\frac{d^2x}{dt^2} + 2f(x)\frac{dx}{dt} + \omega^2x = \omega^2 S\cos(\omega + V)t + \omega^2N(t) \cos[(\omega + V)t + \gamma(t)].$$

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SOV/109-4-1-6/30

Selective Properties of an Oscillatory System which is Synchronised by a Sinusoidal Signal

If, in the absence of the perturbation, the oscillator has a steady-state amplitude A and a phase ϕ , such as defined by:

$$x = A \cos [(\omega + \gamma)] t - \phi$$

the effect of the perturbation can be taken into account by assuming that A undergoes a change α and ϕ undergoes a change ψ ; these are defined by:

$$P = A(1 + \alpha), \ \theta = \phi - \vartheta \ \left(|\alpha| \ll 1, \ |\vartheta| \ll \frac{\pi}{2} \right).$$

Provided α is comparatively small and $\sqrt[3]{-1}/2$, the system can be described by Eqs (1). If $\alpha=0$ and $\beta=0$ at t=0, the solutions of Eqs (1) are given by Eqs (3) and (4). These equations can be employed to analyse a number of special cases. In particular, when the perturbation is sinusoidal and $\gamma(t)=\delta t$, the phase deviations can be evaluated from Eq (5), while the amplitude

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SOV/109-4-1-6/30

Selective Properties of an Oscillatory System which is Synchronised by a Sinusoidal Signal

modulation is defined by Eq (?). If the oscillator is perturbed by a fluctuation noise which has a spectral density W and is contained within a bandwidth Ω , the square deviation of the phase is defined by Eq (8), where σ_n^2 is the square deviation of the noise at the output of the filter. The square deviation of the amplitude of the oscillator is defined by Eq (9). There are 6 references, 4 of which are Soviet and 2 English.

SUBMITTED: March 23, 1957

Card 3/3

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446930013-0"

SAMCYLENGE, Yu. I., Cand Tech Sci -- (diss) "Non-stationary processes in the synchronization of autooscillations of Thompson type generators by weak external forces." Kiev, 1960. 15 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Kiev Order of Lenin Polytechnic Inct); 200 copies; price not given; bibliography at end of text (17 entries); (Kh., 22-60, 139)

SAMOTLENKO, Yu.I. Synchronisation stability when modulated oscillations are acting upon a self-oscillator. Radiotekhnika 15 no.7: 37-41 Jl '60. (MIRA 13:7) (Oscillators, Electric)

L 20216-65 EWT(d)/EPF(n)-2 Po-4/Pq-4/Pg-4/Pu-4/Pk-4/P1-4 IJP(c)/ASD(a)-5/ASD(s)/AFMD(p)/ESD(dp) WW/BC
ACCESSION NR: AP4048821 S/0280/64/000/005/0030/0038 7

. THOR: Mozgovaya, E.A. (Kiev); Samoylenko, Yu. I. (Kiev)

TITLE: Construction of the optimal algorithm of extremum control, based on the principle of dynamic programming

S 1URCE: AN SSSR. Izv. Tekhnicheakaya kibernetika, no. 5, 1964, 30-38

WIC TAGS: automation, extremum control control algorithm, dynamic programming,

In STRACT: The feedback system investigated by the author is shown in Figure 1 of the Enclosure. Here, λ_K is a discrete random disturbance, such that $\lambda_{KH} = \lambda_K + \mu_K$, where λ_k is statistically independent with a continuous distribution density $w(\mu_K)$ and where $z_k = u_k$ is the regulating function increment. For the open loop transfer function $y = x^k$ in inertialess object. It is required to find a regulating algorithm which allows determation of u_k , 1 from the observed value of y_k and from all previous information on (1 + k - 2, k - 1), such that the average value of the output signal y be a minimum. I sink the Bayes formula to obtain the required a posteriori probabilities p_k and applying

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the minimum risk criterion to find the minimum risk function $Q(z_k, y_k, p_k)$, the desired regulating function y_k is found to be that value of z_k which gives a minimum Q_k . Assuming known initial conditions $u_0 = A_0$, the optimum regulating function z = J(y, p) is evaluated the gaussian $w(\mu_k)$ and is shown in Figure 2 of the Enclosure. In general the optimum regulating algorithm is then constructed as follows: Find $\mu_{ij}(i,j)=1$, 2) using the value and v_k from previous computations; find the density w_{ij} from the Bayes formula; the probability p_k of the hypothesis A_k , (i.e. $A_k = u_k + \sqrt{y_k}$) using the previous real p_{k-1} and a known value of p_0 ; find z_k from $z_k = J(y_k, p_k)$, where J is a previously netermined function; the next value of the optimum regulating function is $u_{k+1} = u_k + z_k$. Orig. art. has: 26 equations and 5 figures.

ASSOCIATION: None

SUBMITTED: 23Aug63

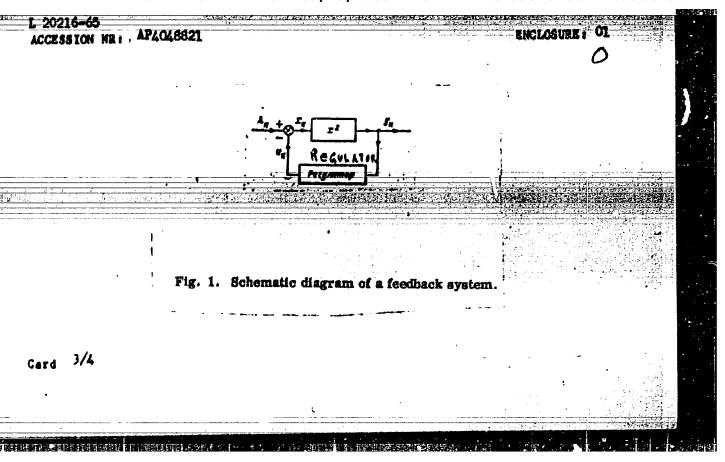
ENCL: 02

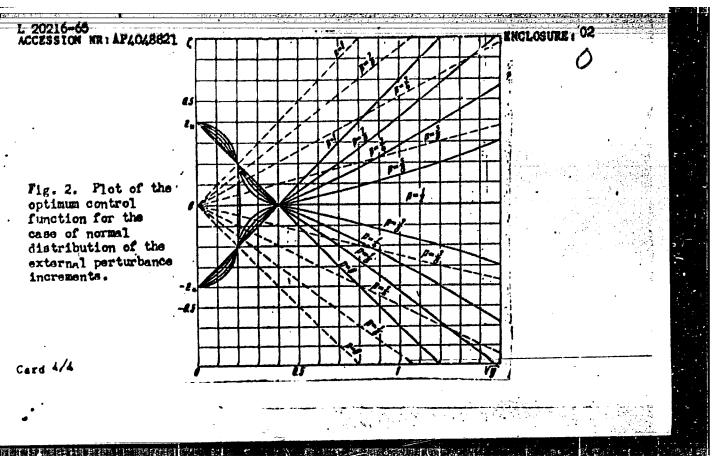
SUB CODE: DP, IE

NU REF SOV: 006

OTHER: 001

Card 2/4





1. ON CASE MY (A) / BIP(Y) / T/BIP(k) / BIP(h) / BIP(1) IJP(c) A 15028933 SOURCE CODE: UR/0000/65/000/000/0006/0024 44,55 44,55 AUTHOR: Volkovich, V. L.; Samoylenko, Yu. L. ORG: None TITLE: Optimum filtration in spatially distributed systems SOURCE: AN UkrSSR. Slozhnyye sistemy upravleniya (Complex control systems). Kiev. Naukova dumka. 1965. 6-24 14,44,54 TOPIC TAGE: optimal control, electric filter, probability, random process ABSTRACT: Following a brief survey of the literature on application of the theory of random processes to control systems with distributed parameters, the authors examine one of the problems involved in synthesis of an optimum distributed system for useful signal filtration when there is interference from random fields. The distributed reception systems to be synthesized may either be independent, e.g. in the communication channels, or be part of the control system as distributed pickup units. Because of the bilateral nature of the communication channels, the results for distributed receivers may be extended to distributed transmitters (controllers). Analysis shows that the distributed filtration system has the advantage of near-regularity, i.e. the error in reproduction of useful information may be reduced to an unlimited extent by reduction of the noise inherent in the filter. The system is also found to be highly reliable. Simultaneous failure of more than one of the receiving units does not Card

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disrupt the operation of the system, but only raises the error slightly. The system may be used for simultaneously controlling the state of a field at various points with a single distributed pickup and several integral transducers with weight functions which depend on the control point. The principal disadvantage of systems in this class is the technical complexity involved in making a distributed pickup unit. Nevertheless, this complexity is an absolute necessity for precise and reliable control of objects with distributed parameters. It is pointed cut that the proposed method for synthesis of optimum filters provides for synthesis of systems with a finite set of point pickups. It must only be kept in mind that in this case the basis of the system is a discrete point set with an extent uniformly distributed among all its points. The property of near-regularity is lost in a system of this type. The following important problems in the theory of field filtration are mentioned: 1. determining the optimum operator in the case of a linear filter for a spatially distributed signal (distributed transmitter); 2. synthesis of an optimum linear communication channel with distributed transmitter and receiver; 3. the problem of optimum filtration for a signal from a moving source; 4. synthesis of an optimum filter system when there are fluctuations in the main part of the transmission channel. Orig. art. has: 3 figures and 43 formulas.

SUB CODE: 09 / SUBM DATE: 03Aug65 / ORIG REF: 014 / OTH REF: 001

Card 2/2